

Work Order ID 108585

October-23-13 7:38:31 AM

Page 1

Item ID: D350-591-312

Revision ID:

Item Name: Heli-Access-Step™ RH

Start Date: 10/23/13 Start Qty: 10.00

Required Date: 11/01/13 Req'd Qty: 10.00

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

QC:

Date:

SPC (Y/N):

Date:

Run

Start

NR1

Stop

NR2

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Tool ID

Tool #

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

Draw Nbr

Revision Nbr

D3272

Rev B

100

0.00

100

DC

Document Control

DOCUMENT CONTROL

Memo M.H.

0.00

Photocopy bluefile and type labels as per PPP D350-591-312 CHG001

DAS

6

9-89

13/11/8

10

110

0.00

110

Large Fab

Large Fab

Large Fab

Memo

0.00

1-Bevel end for welding FWD ONLY ✓

2-Weld Support using Jig DT8719, weld Fwd End Plate as per QSI 004 & Dwg ✓

D3272

A/R Aluminum Rod 4127165 / M125091

3-Grind End Plate flush ✓

131031 PD

8AD 13-11-05

Work Order ID 108585

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Page 2

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Item ID: D350-591-312

Accept

N900040100

Setup Start *NS1*

Revision ID:

Stop *NS2*

Item Name: Heli-Access-Step™ RH

Start Date: 10/23/13 Start Qty: 10.00

10

Cust Item ID:

Required Date: 11/01/13 Req'd Qty: 10.00

10

Customer:

Reference:

Approvals: Process Plan: Date: Tooling: Date:

Run Start *NR1*

QC: Date: SPC (Y/N): Date:

Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

120

QC9- Inspect visual per QSI004- Fusion Welds

0.00

120

QC

Memo

0.00

Quality Control

10 0 13-11-01



130

QC5- Inspect part completeness to step on W/O

0.00

130

QC

Memo

0.00

Quality Control

DAS
27
9-89

13-11-01

10

140

Chemical Conversion Coat per QSI005 4.1

0.00

140

HandFinish

Memo

0.00

Hand Finishing

10 76 13-11-4

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Item ID: D350-591-312

Accept

N900040100Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: Heli-Access-Step™ RH

Start Date: 10/23/13 Start Qty: 10.00

10

Cust Item ID:

Required Date: 11/01/13 Req'd Qty: 10.00

10

Customer:

Reference:

Approvals: Process Plan: Date: Tooling: Date:

Run Start ***NR1***

QC: Date: SPC (Y/N): Date:

Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
150	QC7-Inspect Chemical Conversion Coat	0.00							
150									
QC	Memo	0.00				10	0		<i>AS</i> 19 13-11-05
Quality Control									
180		0.00							
180									
Large Fab	Large Fab	0.00				10	0		<i>AS</i> 13-11-05
Large Fab	Memo								
	1-Assemble Leg Assembly as per Dwg D3272.								
	2-Leave one rivet out until welding is complete.								
	3-Bevel Aft end for welding								
	4-Inspect for foreign object as per QSI 024								
	5-Weld Aft End Plate as per QSI 004 & Dwg D3272 A/RAluminum Rod <u>123928</u>								
	6-Grind End Plate flush								
	7-Install last rivet as per Dwg.								

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Item ID: D350-591-312

Accept

N900040100

Setup Start ***NS1***

Revision ID:

Item Name: Heli-Access-Step™ RH

Stop ***NS2***

Start Date: 10/23/13 Start Qty: 10.00

10

Cust Item ID:

Required Date: 11/01/13 Req'd Qty: 10.00

10

Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Run Start ***NR1***

Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
190 *190* QC Quality Control	QC10- Inspect visual per QSI004- ground welds Memo	0.00 0.00				10			
			DAS 27 9-89 13 11 06						
200 *200* QC Quality Control	QC5- Inspect part completeness to step on W/O Memo	0.00 0.00				10			
			DAS 27 9-89 13 11 06						
210 *210* HandFinish Hand Finishing	Chemical Conversion Coat per QSI005 4.1 Memo	0.00 0.00				10	0	0	13-11-6

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Item ID: D350-591-312

Accept

N900040100

Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: Heli-Access-Step™ RH

Start Date: 10/23/13 Start Qty: 10.00

10

Cust Item ID:

Required Date: 11/01/13 Req'd Qty: 10.00

10

Customer:

Reference:

Approvals: Process Plan: Date: Tooling: Date:
QC: Date: SPC (Y/N): Date:

Run Start ***NR1***
Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
220	White Gloss(Ref:4.3.5.1) per QSI005 4.3-Alum	0.00							
220	<i>M126829.</i>					<i>10</i>	<i>φ</i>	<i>B-11-7</i>	DAS
Powdercoat	Memo	0.00							34
Powder Coating	START TIME <i>10:15</i>								9-89
	OVEN TEMPERATURE: <i>320°</i>								
	FINISH TIME <i>10:45.</i>								
230	Wing Walk as per dwg QSI005 4.4 Batch <i>M1271</i>	0.00							
230									
HandFinish	Memo	0.00							
Hand Finishing									
									<i>16RH f M 13/11/07</i>
240	QC3- Inspect Part Finish	0.00							
240									
QC	Memo	0.00							
Quality Control									<i>B118</i>

DAS
27
9-89

B

Work Order ID 108585

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Item ID: D350-591-312

Accept

N900040100Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: Heli-Access-Step™ RH

Start Date: 10/23/13 Start Qty: 10.00

10

Cust Item ID:

Required Date: 11/01/13 Req'd Qty: 10.00

10

Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start ***NR1***

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
250	Pick Kit	0.00							
250									
Packaging	Memo	0.00				10x	DAS 28 9-89	13-11-6	
Packaging									
260	QC4- 100% Inspect kits for completeness	0.00							
260									
QC	Memo	0.00					DAS 6 9-89	13/11/8	C10
Quality Control									
270		0.00							
270									
Packaging	Packaging								
Packaging	Memo	0.00							
Packaging	Identify and pack for shipping as per PPPD350-591-312								
	Location: <u>1011</u>								
						10		13/11/11	DAS 6 9-89

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Item ID: D350-591-312

Accept

N900040100Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: Heli-Access-Step™ RH

Start Date: 10/23/13 Start Qty: 10.00

10

Cust Item ID:

Required Date: 11/01/13 Req'd Qty: 10.00

10

Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start ***NR1***

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
280	QC21- Final Inspection - Work Order Release	0.00							
280									
QC	Memo	0.00							
Quality Control									

MC 1311-11

U 13.00-11

Picklist Print

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Page 1

Work Order ID: 108585

Parent Item: D350-591-312

Parent Item Name: Heli-Access-Step™ RH

Start Date: 10/23/13

Required Date: 11/01/13

Start Qty: 10.00

Required Qty: 10.00

2

Comments:

IPP Rev:A04.03.22New issue KJ/RF

IPP Rev:B 07-06-09 Added D3572-1 JLM

IPP Rev:C 08-04-02 ECN1163 DD verified by:EC

IPP Rev:D 08-04-08 ECN1164 DD verified by:EC IPP Rev:D fixe route seq in bom DD

10.04.28 verified by:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D3272-1 Step		Manufactured	No			110	Each	14.0000	1	10		11-10-29	

Location	Loc Qty	Loc Code
WA003 B108662	14	
105475	7	
105476	7	

10

D3067-1

End Plate

Manufactured No

110 Each 380.0000

1 10

11-10-29

Location	Loc Qty	Loc Code
WA003	380	
101785	189	
102686	165	
67582	2	
68214	1	
78608	4	
79607	1	
83855	1	
90178	1	
90486	3	
95930	4	
96228	9	

10

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Work Order ID: 108585

Parent Item: D350-591-312

Parent Item Name: Heli-Access-Step™ RH

Start Date: 10/23/13

Required Date: 11/01/13

Start Qty: 10.00

Required Qty: 10.00



D3219-1 Manufactured No 110 Each 244.0000 2 20 13.10.29
Plate

Location	Loc Qty	Loc Code
ST	144	
101508	144	
WA003	100	
101870	40	
73410	12	
77674	6	
89967	2	
96128	40	

D3066-1 Manufactured No 180 Each 164.0000 2 20 13.10.29
Spacer

Location	Loc Qty	Loc Code
WA003	164	
107436	160	
95963	4	

MS20600-AD4W4 Purchased No 180 Each 4,760.0000 16 160 13.10.29
Rivets

Location	Loc Qty	Loc Code
ST	3870	
125577	3870	
ST311	374	
123900	350	
125406	24	
ST506	516	
125654	516	

D3065-041 Manufactured No 180 Each 35.0000 1 10 13.10.29
Step Leg Assembly

Location	Loc Qty	Loc Code
WA003 B108990	35	
103486	34	
79336	1	

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Work Order ID: 108585

Parent Item: D350-591-312

Parent Item Name: Heli-Access-Step™ RH

Start Date: 10/23/13

Required Date: 11/01/13

Start Qty: 10.00

Required Qty: 10.00

D3067-1
End Plate

Manufactured No

180 Each 380.0000 1 10

13-10-29

Location	Loc Qty	Loc Code
WA003	380	
101785	189	
102686	165	
67582	2	
68214	1	
78608	4	
79607	1	
83855	1	
90178	1	
90486	3	
95930	4	
96228	9	

10

AN3-35A
Bolt

Purchased No

250 Each 125.0000

2 20

DAS
28
9-89 13-11-6

Location	Loc Qty	Loc Code
FG	10	
122800	10	
ST352	15	
125211	4	
m126400	11	
ST512	100	
m126765	100	

20x 20

DAS
6
9-89

D3235-1
Mounting Lug

Manufactured No

250 Each 207.0000

2 20

DAS
28
9-89

Location	Loc Qty	Loc Code
ST466	44	
102818	44	
ST470	163	
101559	160	
90002	2	
99256	1	

6x 14x

DAS
6
9-89

DAS
31
89

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Work Order ID: 108585

Parent Item: D350-591-312

Parent Item Name: Heli-Access-Step™ RH

Start Date: 10/23/13

Required Date: 11/01/13

Start Qty: 10.00

Required Qty: 10.00

D3278-041

Manufactured No

250 Each 71.0000

10

DAS 13-11-6

28
9-89

DAS 31
9-89

DAS
6
9-89

Location

Loc Qty

Loc Code

ST466 30
102774 30
ST470 41
102349 40
90706 1

10x

NAS1149D0463J

WASHER

Purchased No

250 Each 2,283.0000

160

DAS
28
9-89

DAS 31
9-89

DAS
6
9-89

Location

Loc Qty

Loc Code

FP001 2
122441 2
ST007 24
121912 24
ST294 135
119097 1
124198 35
124778 99
ST510a 2122
M126221 2122

160x

NAS1149D0563J

Washer

Purchased No

250 Each 5,202.0000

40

DAS
28
9-89

DAS 31
9-89

DAS
6
9-89

Location

Loc Qty

Loc Code

ST294 111
123248 42
123355 12
m125807 57
ST298 91
122452 91
ST510a 5000
m126319 5000

40x

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Work Order ID: 108585

Parent Item: D350-591-312

Parent Item Name: Heli-Access-Step™ RH

Start Date: 10/23/13

Required Date: 11/01/13

Start Qty: 10.00

Required Qty: 10.00

AN5-36A
Bolt

Purchased No

250 Each 175.0000

2 (20)

DAS
28
9-89

13-11-6

Location

Loc Qty

Loc Code

ST338 172
123525 1
M126105 171
ST517 3
125388 3

Manufactured No

250 Each 492.0000

2 (20)

DAS
28
9-89

Location

Loc Qty

Loc Code

ST013 492
101708 97
102964 100
103863 113
105836 57
89275 1
97780 124

Manufactured No

250 Each 300.0000

4 (40)

DAS
28
9-89

Location

Loc Qty

Loc Code

FG 4
89045 4
ST469 296
101450 4
101495 4
101911 160
102326 100
89782 19
90514 1
94957 4
97815 2
97903 2

Manufactured No

250 Each 300.0000

4 (40)

DAS
28
9-89

D2618
Bushing

Manufactured No

250 Each 492.0000

2 (20)

DAS
28
9-89

D2230-3
Mounting Lug

Manufactured No

250 Each 300.0000

4 (40)

DAS
28
9-89

DAS
6
9-89

DAS
6
9-89

DAS
6
9-89

DAS
31
9-89

DAS
31
9-89

DAS
31
9-89

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Work Order ID: 108585

Parent Item: D350-591-312

Parent Item Name: Heli-Access-Step™ RH

Start Date: 10/23/13

Required Date: 11/01/13

Start Qty: 10.00

Required Qty: 10.00

D2856-400 Manufactured No

Abrasion Strip 4" Wide (Per Foot)
cut (2) D2856-400-720 as per dwg

DAS
6
9-89

Location	Loc Qty	Loc Code
ST408	162.9252632	
101773	157.56	
99378	5.36526316	
ST415	41.4739	
63735	0.6696	
68076	0.3149	
71164	8.46	
81875	6.398	
86905	0.9569	
89352	24.6745	

1.2 12 DAS 28 9-89 13-11-6

MS21042L3 Purchased No

Nut

DAS
6
9-89

Location	Loc Qty	Loc Code
ST314	35	
M126036	35	
ST506	821	
123900	821	
ST510a	3402	
M126333	3402	

12x 20 DAS 31 9-89

AN4-13A Purchased No

Bolt

DAS
6
9-89

Location	Loc Qty	Loc Code
FG	20	
122808	20	
ST511	1000	
m126193	1000	
ST514	411	
m125709	411	

20X 80 DAS 28 9-89

DAS
31
9-89

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Picklist Print

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Work Order ID: 108585

Parent Item: D350-591-312

Parent Item Name: Heli-Access-Step™ RH

Start Date: 10/23/13

Required Date: 11/01/13

Start Qty: 10.00

Required Qty: 10.00

MS2104215
Nut Purchased No

250 Each 826.0000

2

20

DAS
28
9.89

13-11-6

Location

Loc Qty

Loc Code

st507 826
125535 826

250 Each 2,738.0000

8

80

DAS
28
9.89

Location

Loc Qty

Loc Code

FP001 50
122452 38
8182 12
ST314 9
m125708 9
st507 33
m126073 33
ST509 2230
m126275 2230
ST510a 258
m126333 258
ST518 158
124231 158

250 Each 5,717.0000

4

40

DAS
28
9.89

Location

Loc Qty

Loc Code

FP001 1
123248 1
ST294 251
113068 11
124392 240
ST510a 5465
m126319 5465

5465

4

40

DAS
31
9.89

DAS
6
9.89

MS2104214
Locknut

DAS
6
9.89

NAS1149D0363J
Washer

DAS
6
9.89

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DESIGN <i>CP</i>	DRAWN BY <i>B</i>	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED <i>CE</i>	APPROVED <i>H</i>	DRAWING NO. D3272	REV. B SHEET 1 OF 3
DATE 07.05.18		TITLE STEP ASSEMBLY, HI LONG	SCALE NTS
A	04.03.01	NEW ISSUE	
B	07.05.18	D3272-1 WAS D2622-120	

RELEASED

07.06.04 *ff*

QTY -041	QTY -042	PART NUMBER	DESCRIPTION
X		D3272-041	STEP ASSEMBLY, HIGH LONG (LH)
	X	D3272-042	STEP ASSEMBLY, HIGH LONG (RH)
1	1	D3065-041	LEG ASSEMBLY
2	2	D3066-1	SPACER
2	2	D3067-1	END PLATE
2	2	D3219-1	SUPPORT
1	1	D3272-1	STEP
16	16	MS20600AD4W4	RIVET

GENERAL NOTES:

- 1) D3272-041 SHOWN. FOR D3272-042, INSTALL D3219-1 SUPPORT OPPOSITE SIDE
- 2) WELD PER DART QSI 004
- 3) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005.4.1
POWDER COAT ASSEMBLY WHITE (4.3.5.1) PER DART QSI 005 4.3
BLACK ANTI-SKID PAINT PER DART QSI 005 4.4
- 4) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED.
- 5) ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.
- 6) BREAK ALL SHARP EDGES 0.005 TO 0.010 MAX.

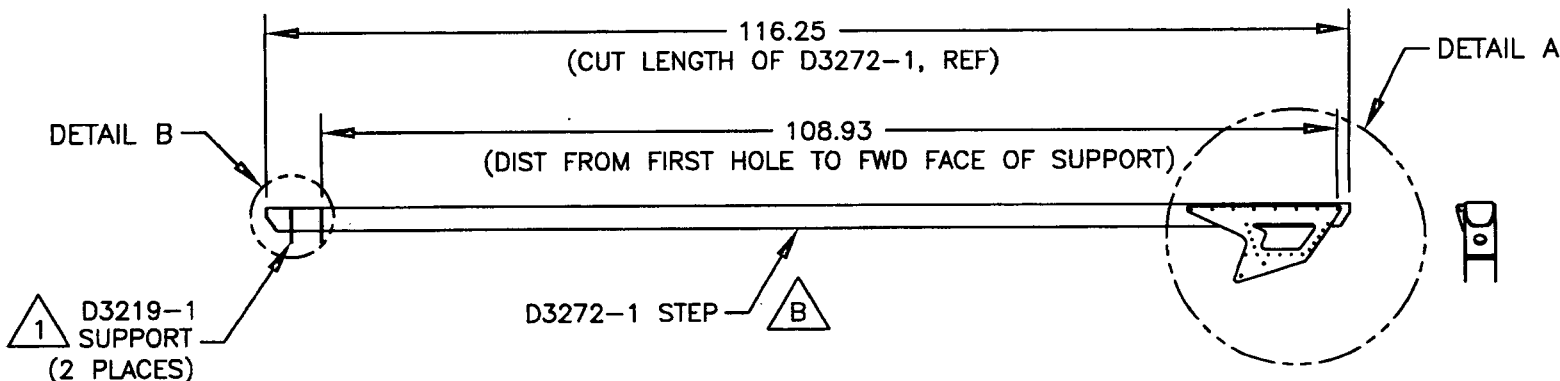
108585
07

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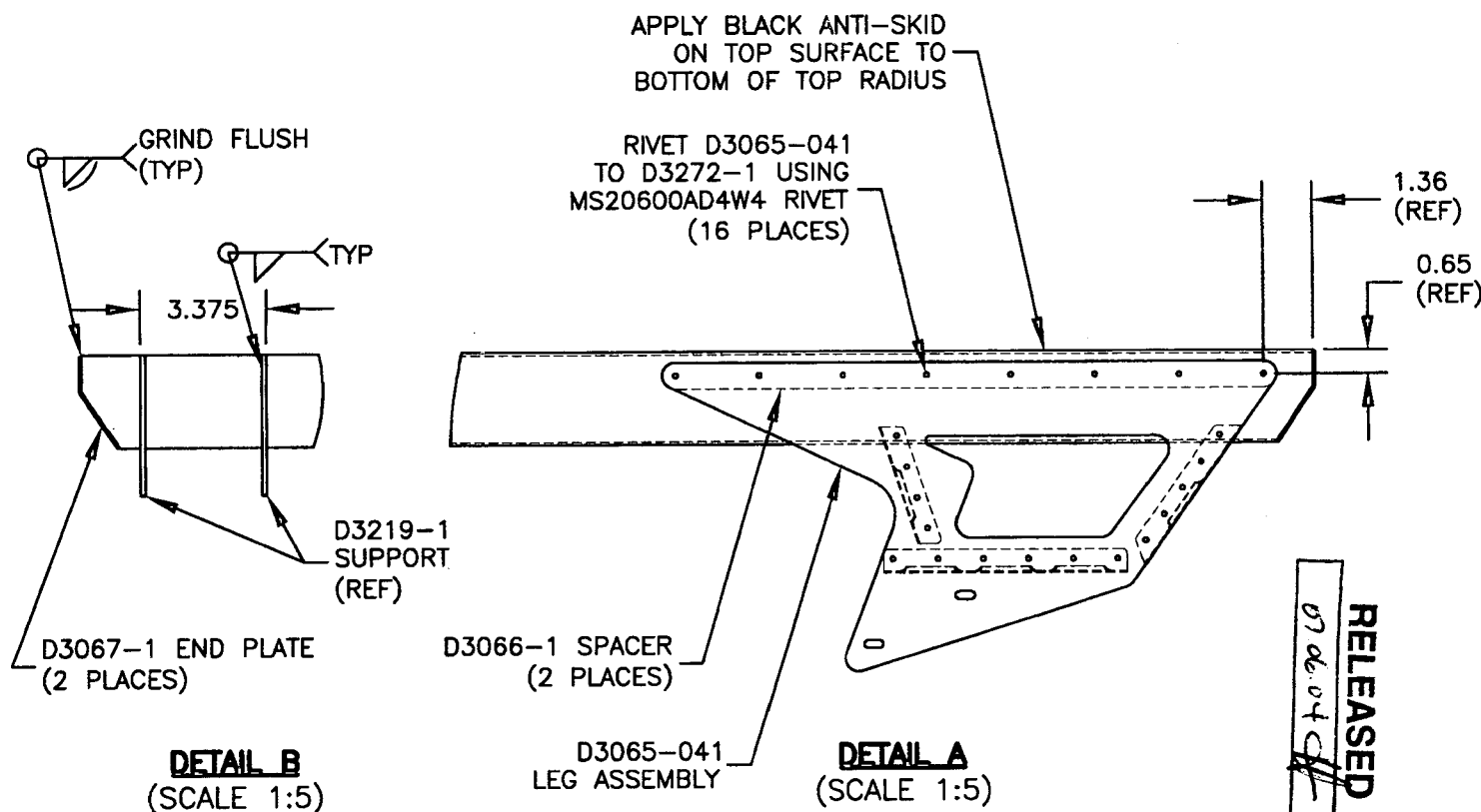
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DESIGN	90	DRAWN BY	JR	DART AEROSPACE LTD
CHECKED	CE	APPROVED	MT	HAWKESBURY, ONTARIO, CANADA
DATE	07.05.18	TITLE	STEP ASSEMBLY, HI LONG	REV. B
				SHEET 2 OF 3
				SCALE 1:20



D3272-041 STEP ASSEMBLY (LH. SHOWN)
D3272-042 STEP ASSEMBLY (RH, OPPOSITE)



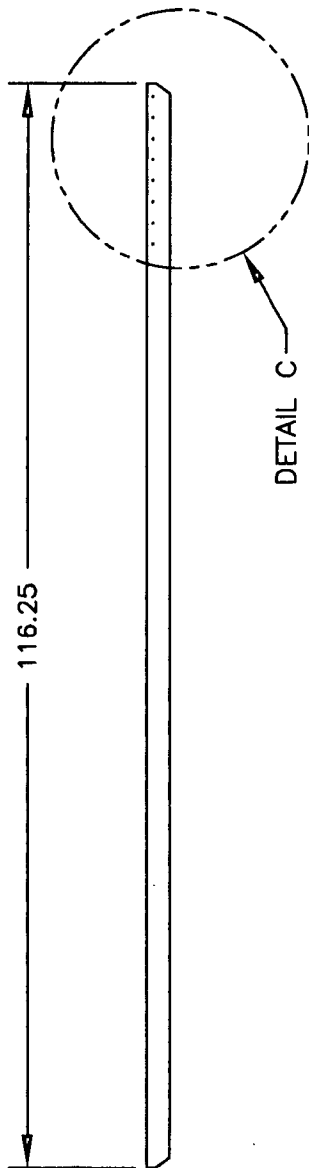
RELEASED
07.06.04



DESIGN <i>GP</i>	DRAWN BY <i>B</i>	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED <i>LE</i>	APPROVED <i>H</i>	DRAWING NO. D3272	REV. B SHEET 3 OF 3
DATE 07.05.18		TITLE STEP ASSEMBLY, HI LONG	SCALE 1:20

RELEASED

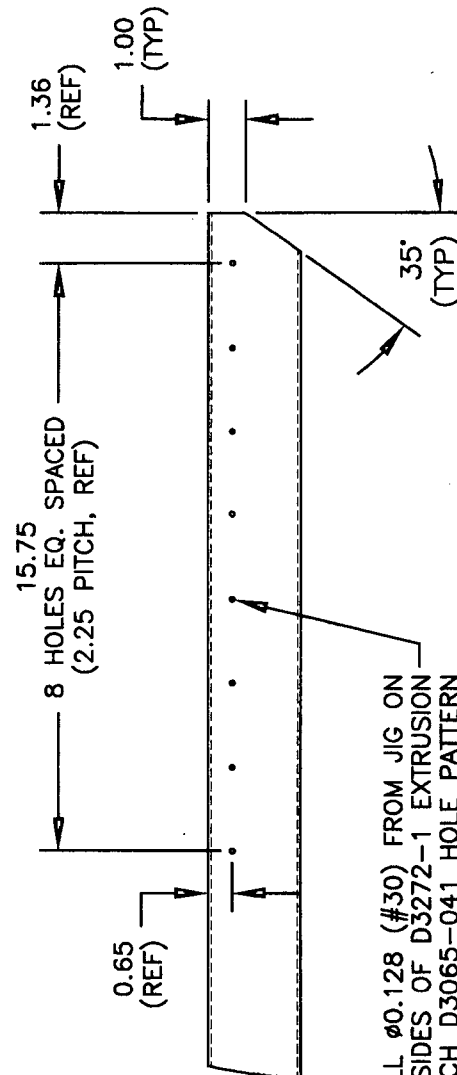
07.06.04 *H*



DETAIL C

B D3272-1 STEP

(MAKE FROM D2622-120 STEP EXTRUSION)



DRILL $\phi 0.128$ (#30) FROM JIG ON BOTH SIDES OF D3272-1 EXTRUSION TO MATCH D3065-041 HOLE PATTERN

DETAIL C

(SCALE 1:5)

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13/1/82 S.F.
REFERENCE ONLY

Qty -211	Qty -212	Qty -213	Qty -214	Qty -215	Qty -216	Qty -311	Qty -312	Part Number	Description
X								D350-591-211	Heli-Access-Step™ , Long Step – High Skid, LH
	X							D350-591-212	Heli-Access-Step™ , Long Step – High Skid, RH
		X						D350-591-213	Heli-Access-Step™ , Short Step – High Skid, LH
			X					D350-591-214	Heli-Access-Step™ , Short Step – High Skid, RH
				X				D350-591-215	Heli-Access-Step™ , Short Step – Low Skid, LH
					X			D350-591-216	Heli-Access-Step™ , Short Step – Low Skid, RH
						X		D350-591-311	Heli-Access-Step™ , Long Step – High Skid, LH
							X	D350-591-312	Heli-Access-Step™ , Long Step – High Skid, RH
1								D3070-041	STEP ASSEMBLY (HIGH-LONG, LH)
	1							D3070-042	STEP ASSEMBLY (HIGH-LONG, RH)
		1						D3078-041	STEP ASSEMBLY (HIGH-SHORT, LH)
			1					D3078-042	STEP ASSEMBLY (HIGH-SHORT, RH)
				1				D3168-041	STEP ASSEMBLY (LOW-SHORT, LH)
					1			D3168-042	STEP ASSEMBLY (LOW-SHORT, RH)
						1		D3272-041	STEP ASSEMBLY (HIGH-LONG, LH)
							1	D3272-042	STEP ASSEMBLY (HIGH-LONG, RH)
4	4							D2182B035	RUBBER CUSHION
		2	2	2	2			D2230-1	MOUNTING LUG
		2	2	2	2	4	4	D2230-3	MOUNTING LUG
8	8							D2274	RADIUS BLOCK
						2	2	D2618	BUSHING
4	4	4	4	4	4			D2732-030	CUSHION
2	2	1	1	1	1	2	2	D2856-400-720	ABRASION STRIP
2	2							D3064-1	CLAMP
1	1							D3079-041	SUPPORT ASSEMBLY
4	4							D3080-1	CLAMP
						2	2	D3235-1	MOUNTING LUG
						1	1	D3278-041	SUPPORT ASSEMBLY
2	2	2	2	2	2	2	2	AN3-35A	BOLT
10	10	2	2	2	2			AN4-11A	BOLT
		4	4	4	4	8	8	AN4-13A	BOLT
						2	2	AN5-36A	BOLT
4	4	4	4	4	4	4	4	AN960JD10	WASHER
20	20	12	12	12	12	16	16	AN960JD416	WASHER
						4	4	AN960JD516	WASHER
2	2	2	2	2	2	2	2	MS21042L3	NUT
10	10	6	6	6	6	8	8	MS21042L4	NUT
						2	2	MS21042L5	NUT
						1	1	*DSI 9410-011	STEP MODIFICATION KIT

*DSI 9410-011 Step Modification Kits are provided with all D350-591-311 and D350-591-312 Steps. This kit is provided as an option for the installer and is therefore **NOT REQUIRED** to complete the installation of the D350-591-311 or D350-591-312 Steps. Refer to Figure 21 for installation of the DSI 9410-011 Kit.

Work Order ID 108585

October-23-13 7:38:31 AM

108585

Page 1

Item ID: D350-591-312

Accept

N900040100

Setup Start *NS1*

Revision ID:

Item Name: Heli-Access-Step™ RH

Stop *NS2*

Start Date: 10/23/13 Start Qty: 10.00

10

Cust Item ID:

Required Date: 11/01/13 Req'd Qty: 10.00

10

Customer:

Reference:

Approvals: Process Plan: 

Date:

Tooling:

Date:

Run Start *NR1*

QC:

Date:

SPC (Y/N):

Date:

Stop *NR2*


Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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Draw Nbr	Revision Nbr
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D3272	Rev B
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400	DOCUMENT CONTROL	0.00
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100

DC	Memo 	0.00
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Document Control Photocopy bluefile and type labels as per PPP D350-591-312 CHG001

MCS 13-11-05

110		0.00
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110

Large Fab

Large Fab	Memo	0.00
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Large Fab 1-Bevel end for welding FWD ONLY ✓

2-Weld Support using Jig DT8719, weld Fwd End Plate as per QSI 004 & Dwg ✓
D3272

A/R Aluminum Rod M27165/M125091

3-Grind End Plate flush ✓

Ⓢ B.1031 PD

BAD 13-11-05